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<110> ROZEN, Rima

<120> cDNA FOR HUMAN METHYLENETETRAHYDROFOLATE  
REDUCTASE AND USES THEREOF

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<150> US 09/592,595

<151> 2000-06-12

<150> US 09/258,928

<151> 1999-03-01

<150> US 08/738,000

<151> 1997-02-12

<150> PCT/CA95/00314

<151> 1995-05-25

<150> GB 9410620.0

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Val Thr Trp His Pro Ala Gly Asp Pro Gly Ser Asp Lys Glu Thr Ser	100	105	110	
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Ser Met Met Ile Ala Ser Thr Ala Val Asn Tyr Cys Gly Leu Glu Thr	115	120	125	
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Asn Tyr Ala Val Asp Leu Val Lys His Ile Arg Ser Glu Phe Gly Asp	180	185	190	
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Val Lys Leu Ser Lys Leu Glu Val Pro Gln Glu Ile Lys Asp Val Ile	275	280	285	
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Phe Pro Pro Arg Thr Ala Glu Gly Ala Val Asn Leu Ile Ser Arg Phe  
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Asp Arg Met Ala Ala Gly Gly Pro Leu Tyr Ile Asp Val Thr Trp His  
85 90 95  
Pro Ala Gly Asp Pro Gly Ser Asp Lys Glu Thr Ser Ser Met Met Ile  
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Ala Ser Thr Ala Val Asn Tyr Cys Gly Leu Glu Thr Ile Leu His Met  
115 120 125  
Thr Cys Cys Arg Gln Arg Leu Glu Glu Ile Thr Gly His Leu His Lys  
130 135 140  
Ala Lys Gln Leu Gly Leu Lys Asn Ile Met Ala Leu Arg Gly Asp Pro  
145 150 155 160  
Ile Gly Asp Gln Trp Glu Glu Glu Gly Phe Asn Tyr Ala Val  
165 170 175  
Asp Leu Val Lys His Ile Arg Ser Glu Phe Gly Asp Tyr Phe Asp Ile  
180 185 190  
Cys Val Ala Gly Tyr Pro Lys Gly His Pro Glu Ala Gly Ser Phe Glu  
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Ala Asp Leu Lys His Leu Lys Glu Lys Val Ser Ala Gly Ala Asp Phe  
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Lys Ala Cys Thr Asp Met Gly Ile Thr Cys Pro Ile Val Pro Gly Ile  
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Phe Pro Ile Gln Gly Tyr His Ser Leu Arg Gln Leu Val Lys Leu Ser  
260 265 270  
Lys Leu Glu Val Pro Gln Glu Ile Lys Asp Val Ile Glu Pro Ile Lys  
275 280 285

Asp	Asn	Asp	Ala	Ala	Ile	Arg	Asn	Tyr	Gly	Ile	Glu	Leu	Ala	Val	Ser	290	295	300
Leu	Cys	Gln	Glu	Leu	Leu	Ala	Ser	Gly	Leu	Val	Pro	Gly	Leu	His	Phe	305	310	315
Tyr	Thr	Leu	Asn	Arg	Glu	Met	Ala	Thr	Thr	Glu	Val	Leu	Lys	Arg	Leu	325	330	335
Gly	Met	Trp	Thr	Glu	Asp	Pro	Arg	Arg	Pro	Leu	Pro	Trp	Ala	Leu	Ser	340	345	350
Ala	His	Pro	Lys	Arg	Arg	Glu	Glu	Asp	Val	Arg	Pro	Ile	Phe	Trp	Ala	355	360	365
Ser	Arg	Pro	Lys	Ser	Tyr	Ile	Tyr	Arg	Thr	Gln	Glu	Trp	Asp	Glu	Phe	370	375	380
Pro	Asn	Gly	Arg	Trp	Gly	Asn	Ser	Ser	Ser	Pro	Ala	Phe	Gly	Glu	Leu	385	390	395
Lys	Asp	Tyr	Tyr	Leu	Phe	Tyr	Leu	Lys	Ser	Lys	Ser	Pro	Lys	Glu	Glu	405	410	415
Leu	Leu	Lys	Met	Trp	Gly	Glu	Glu	Leu	Thr	Ser	Glu	Ala	Ser	Val	Phe	420	425	430
Glu	Val	Phe	Val	Leu	Tyr	Leu	Ser	Gly	Glu	Pro	Asn	Arg	Asn	Gly	His	435	440	445
Lys	Val	Thr	Cys	Leu	Pro	Trp	Asn	Asp	Glu	Pro	Leu	Ala	Ala	Glu	Thr	450	455	460
Ser	Leu	Leu	Lys	Glu	Glu	Leu	Leu	Arg	Val	Asn	Arg	Gln	Gly	Ile	Leu	465	470	475
Thr	Ile	Asn	Ser	Gln	Pro	Asn	Ile	Asn	Gly	Lys	Pro	Ser	Ser	Asp	Pro	485	490	495
Ile	Val	Gly	Trp	Gly	Pro	Ser	Gly	Gly	Tyr	Val	Phe	Gln	Lys	Ala	Tyr	500	505	510
Leu	Glu	Phe	Phe	Thr	Ser	Arg	Glu	Thr	Ala	Glu	Ala	Leu	Leu	Gln	Val	515	520	525
Leu	Lys	Lys	Tyr	Glu	Leu	Arg	Val	Asn	Tyr	His	Leu	Val	Asn	Val	Lys	530	535	540
Gly	Glu	Asn	Ile	Thr	Asn	Ala	Pro	Glu	Leu	Gln	Pro	Asn	Ala	Val	Thr	545	550	555
Trp	Gly	Ile	Phe	Pro	Gly	Arg	Glu	Ile	Ile	Gln	Pro	Thr	Val	Val	Asp	565	570	575
Pro	Val	Ser	Phe	Met	Phe	Trp	Lys	Asp	Glu	Ala	Phe	Ala	Leu	Trp	Ile	580	585	590
Glu	Arg	Trp	Gly	Lys	Leu	Tyr	Glu	Glu	Glu	Ser	Pro	Ser	Arg	Thr	Ile	595	600	605
Ile	Gln	Tyr	Ile	His	Asp	Asn	Tyr	Phe	Leu	Val	Asn	Leu	Val	Asp	Asn	610	615	620
Asp	Phe	Pro	Leu	Asp	Asn	Cys	Leu	Trp	Gln	Val	Glu	Asp	Thr	Leu		625	630	635
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